

**Amendment to the Title:**

Please replace the Title with the following:

LIGHT SOURCE APPARATUS, LIGHTING APPARATUS AND PROJECTION DISPLAY  
APPARATUS

**Amendments to the Specification:**

After the title and before the first paragraph, please insert the following paragraph:

THIS APPLICATION IS A U.S. NATIONAL PHASE APPLICATION OF PCT INTERNATIONAL APPLICATION PCT/JP2004/005422.

Please replace the paragraph, beginning at page 5, line 8, with the following rewritten paragraph:

As shown in Figure 11, the conventional multi-lamp optical system has the configuration in which the light radiated from multiple light source apparatuses gets incident on the rod integrator 2 which is homogeneous lighting means. However, a transmissive/reflective liquid crystal of displaying the image and the light modulation device called a DMD (Digital Micro-mirror Device) have a luminous flux incident angle range capable of substantially modulating the light and an image display effective area capable of displaying the image. For this reason, due to the relation of ~~Heltzholtm~~Helmholtz - Lagrange which is a basic formula of imaging optics, an output angle range of the light according to the size of an outgoing side opening 2b of the rod integrator 2 in an imaging relation with the relay lens 3 is uniquely decided by the relay lens 3.

Please replace the paragraph, beginning at page 5, line 24, with the following rewritten paragraph:

In this case, if the outgoing side opening and the incident side opening of the rod integrator 2 are of an equal size, the output angle range is equal to the incident angle range. If the outgoing side opening and the incident side opening are of different sizes, the incident angle range is in accordance with the size of the incident side opening induced by the relation of ~~Heltzholtm~~Helmholtz - Lagrange, and so only the luminous flux within this angle range is projected onto the screen via the rod integrator 2, relay lens 3, light modulation device 4 and projection lens.

Please replace the paragraph, beginning at page 7, line 6, with the following rewritten paragraph:

The light source apparatus of the second conventional example shown in Figure 15 is in a form of non-rotation asymmetry to the optical axis of the first concave mirror, that is, the straight line connecting the luminescence center 10c of the light-emitting portion 10 of the lamp to the focus Y. Its outer shape can be smaller than that of the first conventional example. The luminous fluxes formed by collection of light can also be of non-rotation asymmetry, and it is possible, even in the multi-lamp optical system of Figure 11, to reduce the distance between the first concave mirror 8 corresponding to the first concave mirror 6 and the incident side opening 2a of the rod integrator 2.

Please replace the paragraph, beginning at page 46, line 9, with the following rewritten paragraph:

As previously described, in the above embodiments, the lamp 11 is an example of the lamp or light generating means of the present invention, the spherical vessel portion of the lamp light-emitting portion 111 except the source of luminescence is an example of the spherical vessel portion of the present invention, the ends ~~111b~~ 111c and 111d are an example of the pair of ends of the present invention, the light transmission plane 111a of the lamp light-emitting portion 111 is an example of a first opposed plane of the present invention, and the light transmission plane 111b is an example of a second opposed plane of the present invention.

Please delete the following title, beginning at page 47, line 11:

~~Industrial Applicability~~